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WATER SUPPLY OUTLOOK FOR IDAHO

U.S. DEPT. OF AGRICULTURE

MAR 25 1975

WATER SUPPLY SECTION
NORTHWEST REGIONAL OFFICE



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

IDAHO STATE DEPARTMENT OF WATER ADMINISTRATION

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF
MAR. 1, 1975

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*Cover Photo: Cabins near Sacajawea Snow Course
in Bridger Mountains, Montana.*

SCS PHOTO 11-P480-15

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

|||||
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DEPARTMENT OF WATER RESOURCES
STATE OF IDAHO

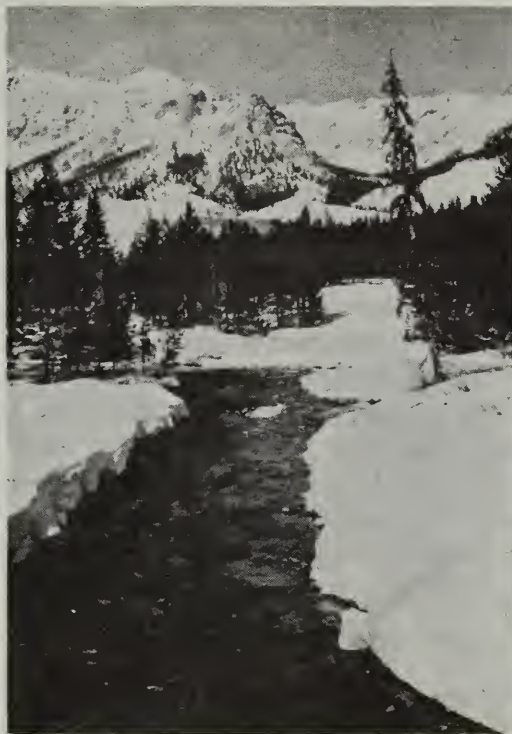
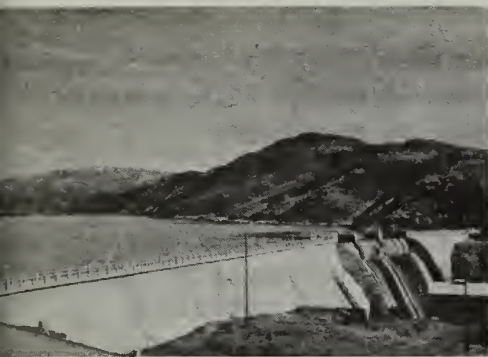
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WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY FOR MARCH 1, 1975

Snowfall during February was above average throughout Idaho except on the watersheds of the Clearwater and Spokane Rivers. On these drainages, however, the snowpack is normal for this time of year. Snow-water equivalent improved substantially on all other watersheds and varies from a low of 85% of normal on the Big Lost River to 159% on the Owyhee River. Two small drainages, the Palouse River and Priest River, are very high with 158% and 148% of average respectively.

Streamflow forecasts for the April through September season vary from 76 percent of normal for the Big Lost River near Mackay to 120 percent for the Cub River near Preston. Most of the major rivers are forecast to flow near normal during the 1975 runoff season. Water supplies are expected to be adequate throughout the state with the possible exception of some small southern Idaho streams without storage facilities.

Soil moisture in general is well below normal. Drought conditions from May to November in 1974 left the soil mantle extremely dry at the start of the winter season. Snow has accumulated on these dry soils and will lose potential runoff volumes to soil priming when the snow begins to melt in the spring.

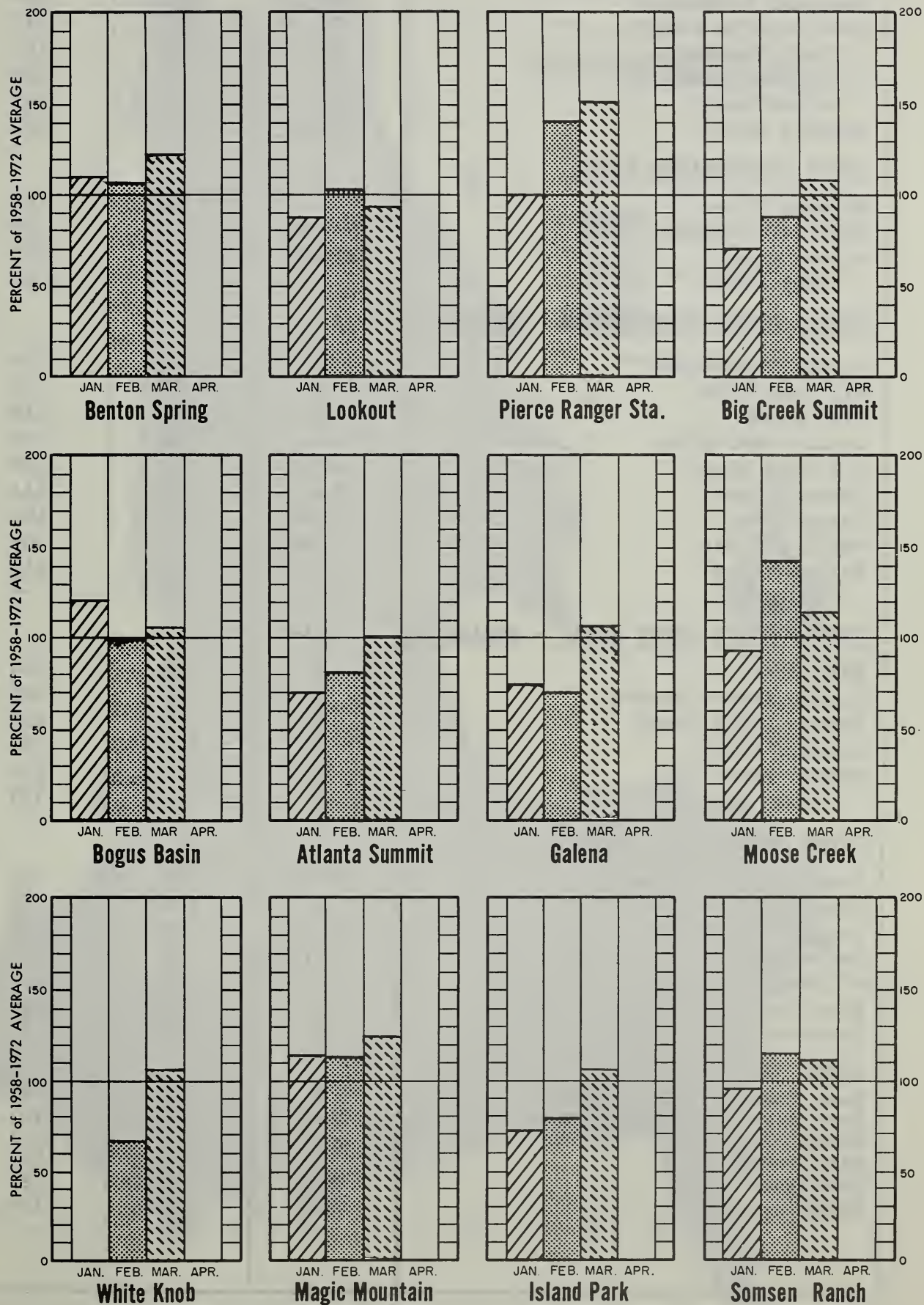
Carryover storage is good to excellent. Storage as of March 1 in total for fifteen selected irrigation reservoirs was 119% of average.

Valley precipitation during the winter period from November 1974 through February 1975 was below normal on the Owyhee and Upper Snake drainage divisions, near normal on the Snake River Plain and Salmon-Payette-Boise division, and above average on the Clearwater and all other northern divisions of the state. February was an exceptionally wet month, with precipitation within the Boise River District generally in the range of 150% to 200% of normal. An exception was the Clearwater Basin which had about 120% of normal for the month. Boise had the greatest February precipitation since 1930, while Pocatello recorded the wettest February since 1940. Most of the precipitation fell between February 8-13, and fell as rain below elevations of about 6,000 feet.

SNOW WATER DEPTHS ACCUMULATION

For Selected Snow Courses

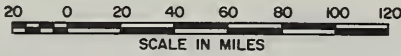
As Compared To 1958-1972 15 Yr. Average



COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF :	
		LAST YEAR	1958-72 AVERAGE
<u>UPPER COLUMBIA RIVER BASIN</u>			
Kootenai River	26	82	108
Pend Oreille River	71	85	107
Clark ForkRiver	50	89	110
Flathead River	21	79	103
Priest River	4	94	148
Spokane River	11-12	63	100
<u>LOWER SNAKE RIVER BASIN</u>			
Palouse River	5	85	158
Clearwater River	16-20	72	99
Salmon River	22-24	72	103
Lemhi River	6	71	92
<u>MIDDLE SNAKE RIVER BASIN - Northside</u>			
Little Lost River	5	96	88
Big Lost River	7	73	85
Fish Creek	2	101	110
Little Wood River	4	79	88
Big Wood River	10-11	69	96
Canyon Creek	1-2	71	111
Boise River	13-14	71	104
Payette River	13-14	75	109
Weiser River	2	74	112
Mann Creek	4	83	--
<u>MIDDLE SNAKE RIVER BASIN - Southside</u>			
Raft River	7	79	111
Goose-Trapper Creeks	3	75	109
Salmon Falls Creek	11	98	118
Bruneau River	5	114	131
Owyhee River	5	104	159
Jordan Creek	2	95	123
<u>UPPER SNAKE RIVER BASIN</u>			
Snake Basin - Wyoming	21-22	82	92
Camas-Beaver Creeks	2	128	120
Henrys Fork River	10-11	78	95
Teton River	2-11	76	109
Willow-Sand Creeks	6-10	86	107
Blackfoot River	3	102	109
Portneuf River	4	98	121
<u>GREAT BASIN</u>			
Bear River - Upper - Utah	7	93	97
Bear River - Lower - Idaho	14-17	87	107
Montpelier Creek	4-6	96	101
Mink Creek	7	83	105
Cub River	2-3	83	129
Malad River	4-6	102	120

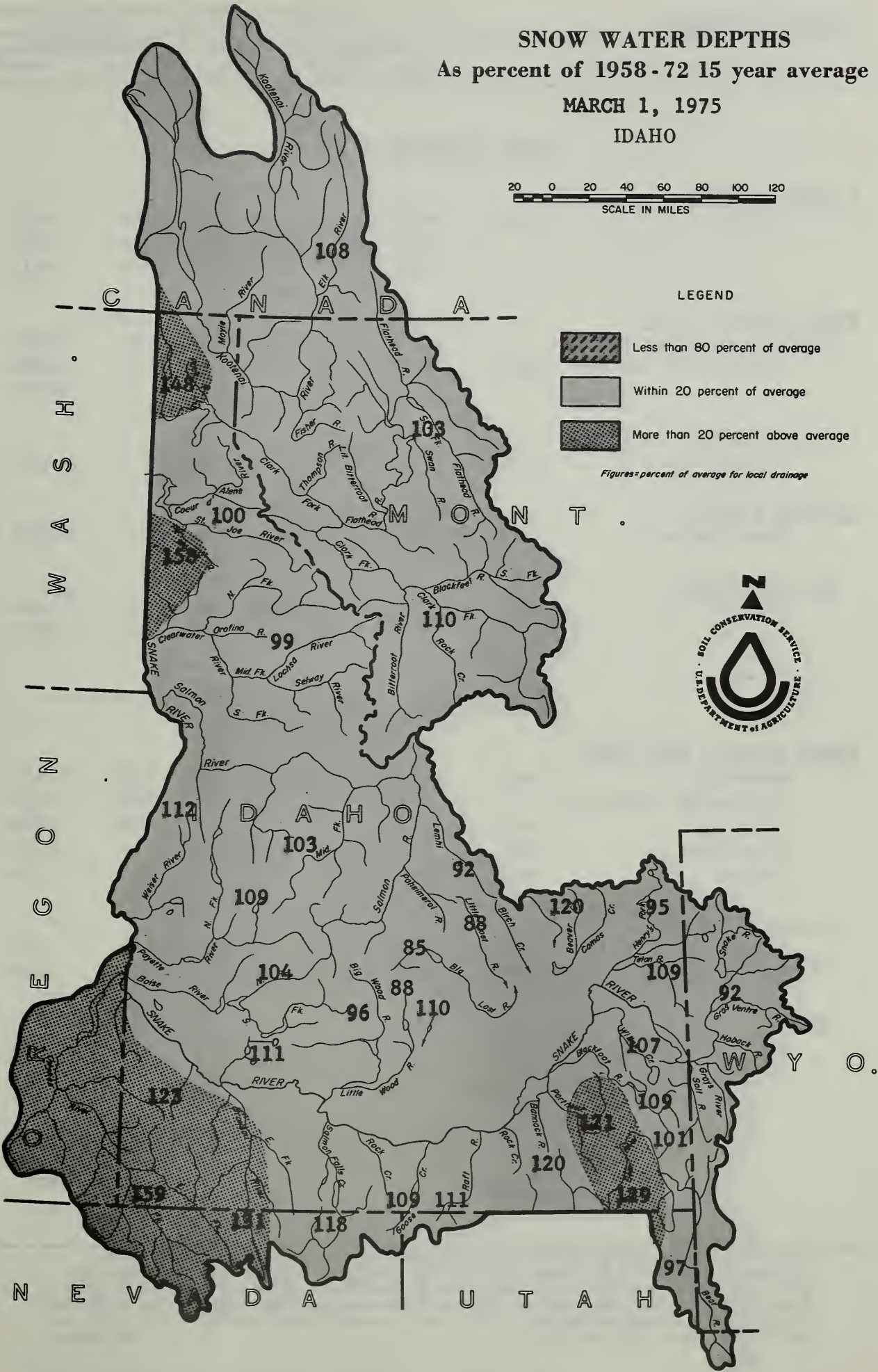
SNOW WATER DEPTHS
As percent of 1958 - 72 15 year average
MARCH 1, 1975
IDAHO



LEGEND

- Less than 80 percent of average
- Within 20 percent of average
- More than 20 percent above average

Figures - percent of average for local drainage



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average [†]

UPPER COLUMBIA BASINKOOTENAI RIVER

Leonia	(at)	9050	100	Apr-Sep	--	9073
		7950	100	Apr-Jul	--	7957
		6400	100	Apr-Jun	--	6431

PEND OREILLE RIVER

Clark Fork River		13700	97	Apr-Sep	--	14336
Whitehorse Rapids	(at)	12470	97	Apr-Jul	--	13086
		10800	97	Apr-Jun	--	11325

Priest River

Priest River <u>1/</u>	(nr)	1050	119	Apr-Jul	--	879
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SPOKANE RIVER

Post Falls <u>2/</u>	(at)	3250	108	Apr-Sep	--	3008
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St. Joe River

Calder	(at)	1450	108	Apr-Sep	--	1345
		1380	108	Apr-Jul	--	1277

SNAKE RIVER BASINSNAKE RIVER - MAIN STEM

Moran <u>3/</u>	(nr)	780	91	Apr-Sep	1153	858
Palisades Inflow <u>3/</u>		3240	87	Apr-Sep	5295	3714
Heise <u>4/</u>	(nr)	3500	89	Apr-Sep	5381	3946
Blackfoot <u>5/</u>	(nr)	3750	90	Apr-Jul	--	4173
Weiser	(at)	5480	84	Apr-Sep	--	6524

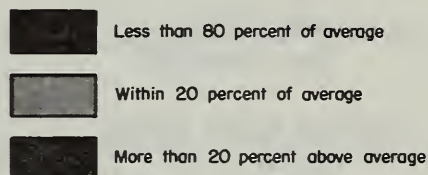
Henrys Fork

Ashton <u>6/</u>	(nr)	660	98	Apr-Sep	--	671
Rexburg <u>7/</u>	(nr)	1360	100	Apr-Sep	--	1364

Teton River

St. Anthony	(nr)	450	102	Apr-Sep	--	442
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(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake.
2/ Observed flow corrected for storage in Coeur d'Alene Lake 3/ Corrected for storage in Jackson Lake.
4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.



Figures=percent of average for local drainage



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR			PAST RECORD	
		FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
		Thousand Acre Feet	Percent of Average		Last Year	Average [†]
<u>Portneuf River</u>						
Topaz	(at)	100	108	Mar-Sep	--	93
<u>Oakley Reservoir Inflow</u>		30	102	Mar-Sep	--	29.5
<u>Salmon Falls Creek</u>						
San Jacinto	(nr)	90	107	Mar-Sep	--	84
		86	107	Mar-Jul	--	80
<u>Bruneau River</u>						
Hot Springs	(nr)	270	119	Mar-Sep	--	226
<u>Little Lost River</u>						
Howe	(nr)	38	93	Apr-Sep	--	41
<u>Big Lost River</u>						
Howell Ranch	(at)	165	79	Apr-Sep	--	208
Mackay <u>1/</u>	(nr)	140	76	Apr-Sep	--	183
<u>Big Wood River</u>						
Magic Reservoir		270	90	Apr-Sep	--	301
Inflow <u>2/</u>		280	90	Mar-Jul	--	310
<u>Little Wood River</u>						
High Five Creek	(ab)	75	80	Apr-Sep	--	94
<u>Boise River</u>						
Twin Springs	(nr)	715	99	Apr-Sep	--	720
		665	100	Apr-Jul	--	665
Boise <u>3/</u>	(nr)	1600	99	Apr-Sep	--	1612
<u>South Fork</u>						
Anderson Dam <u>4/</u>	(at)	600	99	Apr-Sep	--	603
<u>Owyhee River</u>						
Gold Cr., Nev. <u>5/</u>	(nr)	25	139	Apr-Jul	--	18
		30	130	Mar-Jul	--	23
Owyhee, Nev. <u>5/</u>	(nr)	90	132	Apr-Jul	--	68
		103	127	Mar-Jul	--	81
Lake Owyhee		448	135	Apr-Sep	--	332
net inflow <u>6/</u>		560	130	Mar-Jul	--	431

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir
2/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 3/ Corrected for storage in Arrow-
rock, Anderson Ranch and Lucky Peak. 4/ Corrected for storage in Anderson Ranch Reservoir. 5/ Corrected for
storage in Wild Horse Reservoir. 6/ From U.S.B.R. records of inflow.

[†] 1958-1972 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ^{1/}		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁺

Payette River

Horseshoe Bend <u>1/</u>	(nr)	1850	100	Apr-Sep	--	1850
Banks <u>2/</u>	(nr)	1000	101	Apr-Jul	--	993

North Fork

Cascade <u>3/</u>	(at)	570	101	Apr-Sep	--	562
Banks <u>3/</u>	(nr)	735	101	Apr-Sep	--	730

Weiser River

Weiser ab. Crane Creek <u>4/</u>		550	108	Mar-Sep	--	511
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Salmon River

Whitebird	(at)	6900	99	Apr-Sep	--	6959
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Clearwater River

Spalding	(at)	8950	105	Apr-Sep	--	8514
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GREAT BASINBEAR RIVER

Harer	(at)	269	91	Apr-Sep	--	297
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Montpelier Creek

Montpelier	(nr)	13.8	111	Apr-Sep	--	12.4
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Cub River

Preston	(nr)	60	120	Apr-Sep	--	50.0
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(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Deadwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4. Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth. + 1958-1972 period.

RESERVOIR STORAGE (1,000 Ac. Ft.)

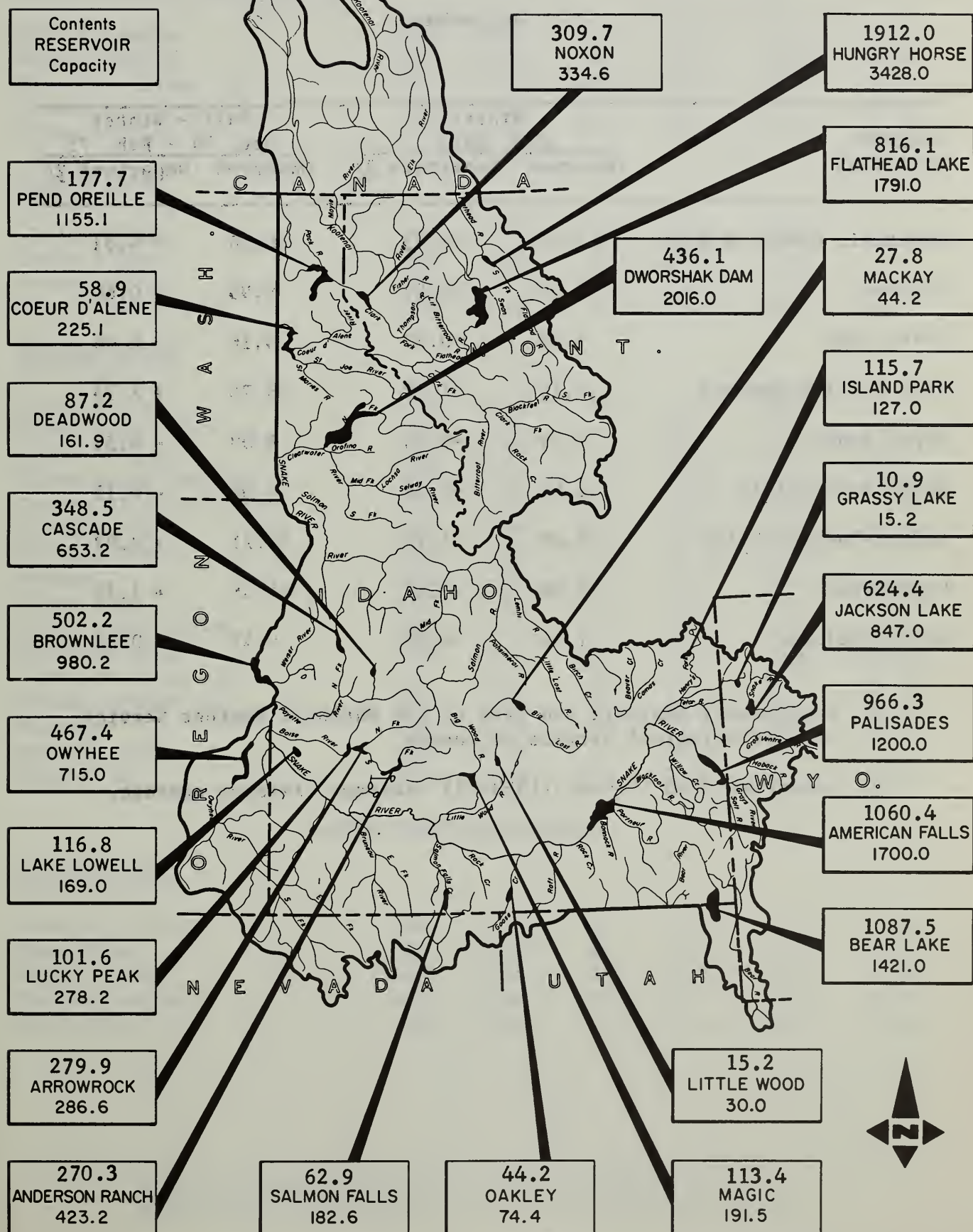
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1958-72 AVERAGE
<u>UPPER COLUMBIA BASIN</u>				
<u>Clark Fork - Pend Oreille</u>				
Hungry Horse	3428.0	1912.0	2211.0	2329.0
Flathead	1791.0	816.1	1221.0	1009.0
Pend Oreille	1155.1	177.7	590.4	457.0
Noxon	334.6	309.7	301.4	300.6
<u>Spokane</u>				
Coeur d'Alene	225.1	58.9	127.9	162.3
<u>SNAKE BASIN</u>				
<u>Snake</u>				
Jackson Lake	847.0	624.4	651.1	533.3
Palisades	1200.0	966.3	942.8	809.0
American Falls	1125.0	1060.4	1044.9	789.1
Island Park	127.0	115.7	113.6	113.5
Grassy Lake	15.2	10.9	10.7	10.3
Brownlee	980.2	502.2	523.7	451.1*
<u>Goose-Trapper Creeks</u>				
Oakley	74.4	44.2	44.2	19.3
<u>Salmon Falls Creek</u>				
Salmon Falls	182.6	62.9	76.0	34.5
<u>Big Lost</u>				
Mackay	44.2	27.8	26.7	31.9
<u>Big Wood</u>				
Magic	191.5	113.4	63.4	103.5
<u>Little Wood</u>				
Little Wood	30.0	15.2	14.3	15.5
<u>Fish Creek</u>				
Carey Valley	14.4	5.3	5.7	--
<u>Boise</u>				
Anderson Ranch	423.2	270.3	176.3	237.6
Arrowrock	286.6	279.9	266.3	247.9
Lucky Peak	278.2	101.6	70.9	89.2
Lake Lowell (Deer Flat)	169.0	116.8	148.7	132.0
<u>Owyhee</u>				
Owyhee	715.0	467.4	536.5	451.2
<u>Payette</u>				
Cascade	653.2	348.5	348.1	325.9
Deadwood	161.9	87.2	38.7	78.8
<u>Weiser</u>				
Mann Creek	11.1	3.8	7.7	--
<u>Clearwater</u>				
Dworshak	2016.0	436.1	1663.8	--
<u>GREAT BASIN</u>				
<u>Bear</u>				
Bear Lake	1421.0	1087.5	1089.6	958.3
*Period of Record.				

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MARCH 1, 1975

50 0 50 100 150
SCALE IN MILES



VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

DRAINAGE DIVISIONS	Winter		Fall - Winter	
	Feb. 1975		Nov. 74 - Feb. 75	
	Observed	Departure <u>2/</u>	Observed	Departure <u>2/</u>
Kootenai, Canada & U.S.	3.75	+1.73	16.58	+ 4.31
Flathead	2.07	+0.27	8.93	- 0.60
Clark Fork	1.12	+0.37	4.16	- 0.04
Pend Oreille-Spokane	4.10	+1.02	18.74	+ 2.73
Upper Snake	2.89	+0.84	8.08	- 0.51
Snake River Plain	1.42	+0.66	4.02	- 0.12
Salmon-Payette-Boise	3.59	+1.76	10.21	- 0.07
Clearwater	2.98	+0.49	14.55	+ 1.74
Owyhee-Malheur	1.56	+0.68	4.47	- 0.30

1/ Preliminary analysis and data by the National Weather Service and Meterological Service of Canada.

2/ Departure from 15-year (1958-72) drainage division average.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b

UPPER COLUMBIA RIVER BASINPEND OREILLE - PRIEST RIVER

Benton Meadow	2344	2/25	31	8.6	4.0	6.1
Benton Spring	4900	2/25	68	21.4	28.9	17.4
#Mosquito Ridge (A)	5110	2/25	108	36.0	54.4	34.7*
Schweitzer Bowl	4500	2/28	106	45.6	49.5	27.8*
Schweitzer Ridge	6100	2/28	154	60.2	61.5	39.9*

HAYDEN LAKE

Chilco Ridge	3650	2/26	38	11.6	10.9	--
Conie Ridge	3900	2/26	40	11.9	--	--
Corner Creek	3150	2/26	37	11.6	6.9	--
Sage Creek Saddle	4100	2/26	65	17.5	30.0	--

SPOKANE RIVER

Above Burke	4100	2/28	83	25.9	27.0	--
Above Burke (SP)	4100	2/28	--	23.7	25.7	--
Copper Ridge	4800	2/27	87	28.7	45.1	25.7
#Forty-nine Meadows	5000	2/26	95	25.8	47.2	28.4*
Fourth of July Summit	3100	2/28	45	14.6	14.2	7.3*
Granite Peak	6000	2/26	124	34.4	64.4	37.7*
Kellogg Peak	5560	2/25	87	29.8	41.4	--
Lookout	5250	2/28	111	30.4	43.4	32.4
#Lost Lake	6000	2/26	145	45.6	--	51.3*
Lower Sands Creek	3400	2/27	61	18.5	26.8	17.5
Medicine Ridge	6150	2/26	125	35.8	61.6	38.5*
Mosquito Ridge (A)	5110	2/25	108	36.0	54.4	34.7*
Roland Summit (A)	5200	2/25	92	31.0	54.1	31.3*
Sherwin	3200	2/28	59	19.2	20.2	13.8*
Sherwin (SP)	3200	2/28	--	19.6	19.4	--
Sunset (A)	5600	2/25	118	30.7	--	33.7*

LOWER SNAKE RIVER BASINPALOUSE RIVER

Crumarine Creek	3340	2/24	45	13.5	14.1	7.8*
East Twin	4050	2/24	46	14.9	17.0	11.1
Howard Creek	3450	2/24	36	10.2	10.1	4.5*
Moscow Mountain	4400	2/24	69	21.7	27.9	15.3
West Twin	4250	2/24	48	15.6	20.1	9.4

(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b

CLEARWATER RIVER

Cayuse Airstrip		3700	2/25	51	13.6	16.7	11.7
Coolwater Mountain (SP)		6200	2/28	--	24.6	30.7	--
Cottonwood Butte		5140	2/27	43	12.7	13.5	--
Crater Meadows		6100	2/25	122	37.8	46.8	40.9*
Crooked Fork		3600	2/27	49	16.1	16.9	12.9*
Elk Butte		5550	2/26	112	33.3	61.2	35.0*
Fish Lake Airstrip		5000	2/25	123	35.3	50.8	37.3
Forty-nine Meadows		5000	2/26	95	25.8	47.2	28.4*
Goat Lake		6600	2/25	126	38.6	58.6	43.8*
#Granite Peak		6000	2/26	124	34.4	64.4	37.7*
Hemlock Butte		5500	2/25	142	42.8	61.8	42.8*
#Hoodoo Basin	Mont.	6000	2/26	126	46.9	63.4	46.1
#Hoodoo Basin (SP)	Mont.	6000	2/24	--	42.6	--	--
#Hoodoo Creek	Mont.	5900	2/26	122	43.5	58.6	43.2
Lolo Pass		5250	2/27	85	28.7	36.3	28.5
Lost Lake		6000	2/26	145	45.6	--	51.3*
Lower Snowhaven		5300	2/27	62	18.7	19.6	--
#Medicine Ridge		6150	2/26	125	35.8	61.6	38.5*
#Nez Perce Pass	Mont.	6575	2/23	60	21.1	19.3	14.3
Orogrande Mountain (SP)		7800	2/28	--	44.8	45.0	--
Pierce Ranger Station		3170	2/28	49	15.7	17.0	10.3
Powell Ranger Station		3410	2/27	48	15.7	16.4	12.6*
Savage Pass		6160	2/26	72	24.0	27.2	20.5
Savage Pass (New)		6160	2/26	76	24.2	26.9	--
Shanghai Summit		4600	2/25	94	26.6	37.5	24.5*
Upper Snowhaven		5600	2/27	53	17.5	20.5	--

SALMON RIVER

Big Creek Summit		6600	3/1	100	34.1	47.2	31.4
#Boulder Creek		5500	2/27	74	24.4	33.6	21.8*
Brundage Mountain		7560	2/27	111	40.2	56.2	42.2*
#Deadwood Summit		7000	3/3	114	39.9	64.5	40.4*
#Deadwood Summit (SP)		7000	3/3	--	40.8	--	--
#Galena Summit		8795	2/25	76	21.6	30.7	20.6
#Gibbons Pass	Mont.	7100	2/25	74	24.9	28.5	20.5
#Lemhi Pass	Mont.	7480	2/23	35	9.8	7.5	7.9
#Lemhi Ridge	Mont.	8100	2/23	41	11.3	10.1	8.9
Mill Creek Summit		8870	2/25	60	19.2	31.6	20.3*
Moose Creek		6200	2/27	61	17.2	19.8	15.2
Morgan Creek		7580	2/27	50	14.8	17.0	12.6*
Redfish Lake		6600	2/27	30	7.7	9.8	8.7*
#Rock Flat Summit		5200	2/27	58	17.3	21.6	16.2
#Secesh Summit		6440	2/28	93	34.2	50.6	--
#Squaw Meadow		5800	2/28	95	34.8	51.4	31.1*
Twin Peaks (A)		10300	2/25	69	22.1	32.6	--
Vienna Mine		8900	2/27	91	29.9	46.2	32.2
Williams Creek Summit		7800	2/28	36	11.4	13.1	11.0

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SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b

Lemhi River

Above Gilmore	8200	2/26	26	6.0	11.1	8.6*
Aspen-Hall Pass (A)	8110	2/26	36	9.1	11.9	7.7*
Copes Camp	7500	2/26	29	6.9	8.5	6.6*
Hall Creek	7560	2/26	21	4.5	6.4	4.8*
Meadow Lake	9100	2/26	46	14.1	22.3	17.1*
Schwartz Lake	8500	2/26	39	11.0	12.6	11.0*

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SNOW

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NAME	Elevation				Last Year	Average ⁶

MIDDLE SNAKE RIVER BASIN - NORTHSIDELITTLE LOST RIVER

Fairview Guard Station	6750	2/25	21	4.5	4.8	4.5
Lost Garfield	6600	2/25	22	4.3	4.0	3.8
Moonshine	7450	2/25	37	9.0	8.4	9.8
Sawmill Canyon	6900	2/25	30	6.6	4.8	7.4
Wet Creek Summit	7600	2/26	34	7.6	11.2	10.9

BIG LOST RIVER

Bear Canyon	7920	2/27	46	12.2	20.9	16.3
Copper Basin	7650	2/27	26	7.2	9.6	8.6
Dry Fork	7340	2/27	46	13.0	--	--
Fishpole Lake	9350	2/27	48	14.0	--	--
Iron Bog	7650	2/27	41	10.4	12.7	13.8*
Leadbelt	6800	2/27	32	7.1	6.6	9.0*
Lost-Wood Divide	7900	2/27	60	17.5	28.7	20.5*
Stickney Mill	7500	2/27	34	8.6	9.2	8.4
White Knob	7700	2/28	32	9.0	10.4	8.4*

FISH CREEK

Iron Mine Creek	6370	2/24	40	10.2	10.5	9.7
Telfer Ranch	6000	2/24	37	8.9	8.4	7.7

LITTLE WOOD RIVER

#Bear Canyon	7920	2/27	46	12.2	20.9	16.3
Garfield Ranger Station	6554	2/26	39	10.0	10.4	10.0
Muldoon	6300	2/26	32	7.6	5.6	7.8
Swede Peak	7650	2/26	51	13.8	18.3	15.4

BIG WOOD RIVER

Camas Creeks Divide	5720	3/3	35	11.2	16.1	--
#Couch Summit	6950	2/28	59	16.8	22.6	16.9*
Dollarhide Summit	8620	2/27	68	19.9	30.1	20.7
Galena	7300	2/25	62	18.4	24.5	17.2
Galena Summit	8795	2/25	76	21.6	30.7	20.6
Graham Ranch	6200	2/25	49	12.2	14.5	12.4
#Lost-Wood Divide	7900	2/27	60	17.5	28.7	20.5
Mascot Mine	7900	2/27	37	9.7	15.4	12.1
Mount Baldy	9000	2/28	62	17.0	26.8	18.0
Soldier Ranger Station	6100	2/28	44	12.0	14.3	11.2
#Vienna Mine	8900	2/27	91	29.9	46.2	32.2

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SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
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CANYON CREEK

Bennett Mountain	6650	3/3	54	17.2	22.6	15.5*
#Camas Creeks Divide	5720	3/3	35	11.2	16.1	--

BOISE RIVER

Atlanta Summit	7500	3/3	92	30.5	53.3	30.2
Atlanta Summit (SP)	7500	3/3	--	27.5	--	--
Bad Bear	5500	2/28	43	15.0	18.8	13.1*
#Bennett Mountain	6650	3/3	54	17.2	22.6	15.5*
#Bogus Basin	6120	3/4	67	22.0	27.5	20.7
Bogus Basin Road	5360	3/4	26	7.4	10.2	5.4
#Camas Creeks Divide	5720	3/3	35	11.2	16.1	--
Couch Summit	6950	2/28	59	16.8	22.6	16.9*
#Dollarhide Summit	8620	2/27	68	19.9	30.1	20.7
Graham Guard Station	5690	3/3	56	18.4	--	--
Jackson Peak	7000	3/3	84	27.8	37.1	27.2*
Moores Creek Summit	6100	2/28	98	29.5	36.4	28.5
Prairie	4900	2/27	33	9.3	7.6	5.3
#Soldier Ranger Station	6100	2/28	44	12.0	14.3	11.2
Trinity Mountain	7780	3/3	104	38.7	60.7	37.8
Trinity Mountain (SP)	7780	3/3	--	29.7	--	--
Trinity Mountain (R)	7780	3/3	--	34.7	--	--
#Vienna Mine	8900	2/27	91	29.9	46.2	32.2

PAYETTE RIVER

#Big Creek Summit	6600	3/1	100	34.1	47.2	31.4
Bogus Basin	6120	3/4	67	22.0	27.5	20.7
#Brundage Mountain	7560	2/27	111	40.2	56.2	42.2*
Cozy Cove	5900	2/21	58	16.5	18.7	15.1
Cozy Cove (SP)	5900	3/4	--	14.5	--	--
Cozy Cove (R)	5900	3/4	--	14.0	--	--
Crawford Ranger Station	4800	3/1	34	10.0	10.4	7.7
Deadwood Airstrip	5440	3/3	47	16.7	17.6	14.5
Deadwood Summit	7000	3/3	114	39.9	64.5	40.4*
Deadwood Summit (SP)	7000	3/3	--	40.8	--	--
High Valley Summit	5170	3/4	46	14.4	13.1	10.3*
#Jackson Peak	7000	3/3	84	27.8	37.1	27.2*
Lake Fork	6000	2/28	57	18.3	22.3	14.1*
Rock Flat Summit	5200	2/27	58	17.3	21.6	16.2
Secesh Summit	6440	2/28	93	34.2	50.6	--
Squaw Meadow	5800	2/28	95	34.8	51.4	31.1*
Tripod Summit	5200	3/4	60	20.5	24.7	15.8*

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SNOW

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WEISER RIVER

Boulder Creek	5500	2/27	74	24.4	33.6	21.8*
Placer Creek	6000	2/28	65	17.7	23.5	15.9*

MANN CREEK

Mann Creek	6080	2/26	75	24.3	30.7	--
Robinson Creek Ridge	6220	2/26	65	23.2	23.3	--
Sturgill Ridge	6800	2/26	86	26.9	37.8	--
Thorson Cabin	5320	2/26	54	16.0	17.7	--

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SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
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NAME	Elevation				Last Year	Average ⁶

MIDDLE SNAKE RIVER BASIN - SOUTHSIDERAFT RIVER

Boy Scout Camp		7600	3/3	33	11.8	17.2	13.2*
Clear Creek Mdws.	Utah	9050	3/3	64	21.8	19.9	18.2*
George Peak		9000	3/3	82	32.2	--	--
Howell Canyon		8000	3/3	65	24.3	36.9	22.2
One Mile Summit	Utah	7330	3/3	24	6.9	5.8	6.8*
Sheep Hollow		6200	3/3	14	5.3	7.2	5.6*
Sublett		6000	3/3	39	12.5	17.2	9.9
Summit Springs		6400	3/3	38	12.6	16.8	9.7*

GOOSE CREEK

Badger Gulch		6660	3/3	36	12.6	17.0	10.1
Bostetter Ranger Station		7500	3/3	53	17.8	25.2	17.5
Vi Pont		7670	3/3	43	13.5	16.0	12.7*

SALMON FALLS CREEK

#Bear Creek	Nev.	7800	2/25	73	24.3	17.8	17.3
Cedar Creek		7000	2/25	35	10.9	11.9	8.8
Deadline		6900	2/26	61	21.3	25.8	19.9
#Fox Creek	Nev.	6800	2/25	49	14.6	11.0	9.3
Goat Creek	Nev.	8800	2/25	53	16.4	16.7	16.0
#Hummingbird Springs	Nev.	8945	2/25	65	20.0	21.0	19.5
Magic Mountain		6700	2/26	53	18.6	22.8	16.2
#Pole Creek R. S.	Nev.	8330	2/25	65	21.4	19.7	16.8
Red Point	Nev.	7940	2/25	23	6.5	10.7	9.2*
Shoshone Basin		5740	2/25	28	8.4	8.9	4.2
Wilson Creek		7500	2/25	39	12.5	11.7	10.8*

BRUNEAU RIVER

Bear Creek	Nev.	7800	2/25	73	24.3	17.8	17.3
Fox Creek	Nev.	6800	2/25	49	14.6	11.0	9.3
Hummingbird Springs	Nev.	8945	2/25	65	20.0	21.0	19.5
Pole Creek R. S.	Nev.	8330	2/25	65	21.4	19.7	16.8
#Seventy-six Creek	Nev.	7100	2/25	48	15.4	14.8	10.0*

OWYHEE RIVER

Battle Creek (A)		5700	2/22	21	6.5	7.2	2.9
#Bear Creek	Nev.	7800	2/25	73	24.3	17.8	17.3
Bull Basin (A)		5600	2/22	12	3.7	3.0	1.1*
#Fox Creek	Nev.	6800	2/25	49	14.6	11.0	9.3
Hyde Pasture (A)		5800	2/22	34	10.5	10.8	4.9
Red Canyon (A)		6650	2/22	36	11.2	10.8	5.9*

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SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
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#Seventy-six Creek Nev.	7100	2/25	48	15.4	14.8	10.0*
Silver City	6400	2/25	55	17.2	16.6	13.8
South Mountain	6340	2/25	45	13.8	16.2	11.3
South Mountain (SP)	6340	3/3	--	13.2	--	--
South Mountain (R)	6340	3/3	--	11.8	--	--
Succor Creek (A)	6100	2/22	27	8.4	8.4	5.4*
Triangle (A)	5150	2/22	8	2.5	3.0	0.6
Vaught Ranch (A)	5950	2/22	27	8.4	8.4	3.3*
War Eagle (A)	7700	2/22	60	18.6	21.0	22.1*

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SNOW

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UPPER SNAKE RIVER BASINCAMAS-BEAVER CREEKS

Camp Creek	6800	2/27	38	10.9	8.0	9.0
Kilgore	6200	2/27	40	12.1	9.9	10.1

MEDICINE LODGE CREEK

Irving Creek	7035	2/28	24	5.7	--	5.2*
Webber Creek	6700	2/28	22	5.0	--	5.3*

HENRYS FORK RIVER

Big Springs		6500	2/27	61	18.0	22.3	18.6
Black Canyon		7850	2/25	88	27.8	39.8	29.4*
Black Moose		8130	2/25	96	33.8	46.0	36.2*
Grassy Lake	Wyo.	7230	2/26	93	29.8	33.4	30.1
Island Park		6315	2/27	57	15.6	17.7	14.7
Latham Springs		7650	2/25	85	27.8	37.6	27.9*
Lucky Dog		6900	2/25	76	23.6	28.4	21.6*
Sawtell Mountain		8720	2/27	78	25.4	33.3	30.4*
Targhee Pass		7000	2/27	43	10.9	12.3	13.5*
Valley View		6500	2/27	47	12.8	14.1	15.4
White Elephant		7700	2/27	65	19.7	28.6	--

TETON RIVER

Darby Canyon	Wyo.	8250	2/26	63	18.5	28.4	--
Freds Mountain	Wyo.	8150	2/26	62	18.2	24.6	--
Garns Mountain		8300	2/26	102	33.2	42.4	--
Indian Meadows	Wyo.	8240	2/26	98	30.4	45.6	--
Jackpine Creek	Wyo.	7350	2/26	67	20.0	27.2	--
McRenolds Reservoir		6800	2/26	65	19.2	23.4	--
Miles Creek	Wyo.	7300	2/26	42	11.5	15.2	--
Phillips Bench	Wyo.	8200	2/28	80	26.2	31.1	--
Pine Creek Pass		6750	2/26	57	16.6	19.0	15.4*
State Line		6650	2/26	49	14.1	13.4	12.8
Teton Pass W.S.	Wyo.	8400	2/28	66	20.6	29.4	--

WILLOW CREEK

Aspen Grove		6600	2/24	40	11.2	14.5	10.3*
Birch Creek		6800	2/24	43	12.5	16.9	14.3*
Blue Ridge		6800	2/24	59	17.5	20.9	--
Bone		6200	2/24	31	8.6	8.5	7.5*
Brockman Station		6430	2/24	42	10.5	11.2	--
Hell Creek		7100	2/24	50	14.3	18.1	--
Mud Creek		7150	2/24	43	12.6	16.1	--
Sheep Mountain		6510	2/24	44	11.0	14.1	12.6*
Tex Creek		6550	2/24	35	10.0	8.4	8.5*

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SNOW

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SAND CREEK

Henry Creek	5650	2/24	21	6.3	4.4	2.4*
-------------	------	------	----	-----	-----	------

BLACKFOOT RIVER

Austin Bros. Ranch	6400	2/27	33	9.1	9.1	7.9
Slug Creek Divide	7230	2/27	53	15.3	13.9	14.7*
Somsen Ranch	7000	2/27	49	13.3	14.1	12.0

PORTNEUF RIVER

Dempsey Creek	6280	2/27	48	14.0	12.5	10.6
Lower Pebble	5800	2/27	46	13.4	14.9	12.1*
Mink Creek	6400	2/27	63	20.5	19.5	15.0
Pebble Creek	6550	2/27	50	15.4	17.8	14.5

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SNOW

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DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
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GREAT BASINBEAR RIVER

Emigrant Summit	7350	2/26	69	22.6	26.8	21.8*
Emigration Canyon	6500	2/26	37	10.5	10.4	9.7*

Montpelier Creek

Giveout	6840	2/27	42	12.0	12.0	11.0*
Little Beaver	6970	2/27	50	14.5	14.4	14.0*
Lower Home Canyon	7500	2/27	46	13.0	11.9	--
Montpelier Creek	6570	2/27	31	7.8	9.3	7.5*
Upper Home Canyon	8500	2/27	66	19.3	21.1	--
Whiskey Flat	6985	2/27	30	7.4	8.6	8.9*

Mink Creek

Christensen Ranch	5600	3/3	34	10.1	12.4	7.7
Dry Basin	7900	3/3	75	25.1	30.8	25.3*
#Emigrant Summit	7350	2/26	69	22.6	26.8	21.8*
Horseshoe Basin	8000	3/3	66	22.1	25.0	23.2*
Liberty Spring	8600	3/3	96	33.4	42.0	33.8*
Strawberry Creek	5800	2/26	39	11.5	14.1	9.6
Strawberry Mink Divide	6800	3/3	63	21.6	24.4	18.6

Cub River

Cub River R. S.	5400	3/3	35	11.0	14.3	8.0
#Franklin Basin	8000	3/3	64	22.9	27.4	--
Willow Flat	6100	3/3	51	17.1	19.7	13.7

MALAD RIVER

Cliff Canyon	7200	2/27	38	10.7	9.1	--
Daniels Creek	6400	2/27	28	6.5	7.8	--
Dry Creek Flat	6480	2/28	36	10.3	10.9	6.6
Lower Elkhorn	7000	2/28	48	15.1	13.6	12.4*
Oxford Mountain	6800	2/28	40	11.2	10.5	9.4
Upper Elkhorn	7100	2/28	59	16.8	17.0	16.0*

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*Partially frozen.

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U.S. Army Engineers

U.S. Department of Agriculture
Forest Service
Agriculture Research Service

U.S. Department of Commerce
NOAA, National Weather Service

U.S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control

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with the Snow Survey"*

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